

Title (en)

Motor vehicle with hinge mechanism for motor vehicle bonnet

Title (de)

Kraftfahrzeug mit Scharniermechanismus für Kraftfahrzeugfronthaube

Title (fr)

Véhicule automobile avec mécanisme de charnière pour capot de véhicule automobile

Publication

EP 1818224 A1 20070815 (EN)

Application

EP 06270094 A 20061116

Priority

- GB 0602586 A 20060210
- EP 06270094 A 20061116

Abstract (en)

A hinge mechanism 10 to lift the rear edge of a bonnet 11 of a motor vehicle comprises an upper leaf 13 connected to the bonnet 11, a lower leaf 12 connected to the body structure of the vehicle and a middle leaf 14 connected to the upper leaf 13 and the lower leaf 12. The middle leaf 14 is connected to the upper leaf 13 by means of a stud 16 and a slot 17 connection so as to limit movement of the bonnet from a normal position to a deployed position under an upward force exerted by a lift actuator. The stud 16 and slot 17 connection is provided with a resiliently deformable element 30 arranged at the end of the slot for dissipating impact energy of the stud 16 against the slot 17 during the upward force.

IPC 8 full level

E05D 11/00 (2006.01); **B60R 21/34** (2011.01); **B60R 21/38** (2011.01)

CPC (source: EP GB US)

B60R 21/34 (2013.01 - GB); **B60R 21/38** (2013.01 - EP US); **B62D 25/12** (2013.01 - GB); **E05D 11/00** (2013.01 - EP US); **B60R 2021/343** (2013.01 - EP US); **E05Y 2900/536** (2013.01 - EP US)

Citation (search report)

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- [DA] GB 2410924 A 20050817 - FORD GLOBAL TECH LLC [US]
- [A] DE 20214904 U1 20030213 - TRW REPA GMBH [DE]
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Designated contracting state (EPC)

DE FR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

US 2007187993 A1 20070816; **US 7934293 B2 20110503**; CN 101016060 A 20070815; CN 101016060 B 20100407; EP 1818224 A1 20070815; EP 1818224 B1 20120912; GB 0602586 D0 20060322; GB 0622802 D0 20061227; GB 2435016 A 20070815; GB 2435016 B 20090513

DOCDB simple family (application)

US 67227607 A 20070207; CN 200610150184 A 20061030; EP 06270094 A 20061116; GB 0602586 A 20060210; GB 0622802 A 20061116